

# FortiLink Release Notes

FortiSwitchOS 7.2.1



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September 28, 2022

FortiSwitchOS 7.2.1 FortiLink Release Notes

11-721-819463-20220928

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## Change log

| Date               | Change Description   |
|--------------------|--|
| August 4, 2022     | Initial document release for FortiOS 7.2.1   |
| August 9, 2022     | Changed the release build number to 1254.  |
| September 13, 2022 | <ul style="list-style-type: none"><li>Added the following sentence to the “What’s new in FortiOS 7.2.1” section: “The FG-180xF and FG-260xF models can now manage 196 FortiSwitch units.”</li><li>Added the number of switches that can be managed by FortiGate-3xxx and up and FortiGate-VM08 and up to the table at the beginning of the “Introduction” section.</li></ul> |
| September 14, 2022 | <ul style="list-style-type: none"><li>Removed the following sentence to the “What’s new in FortiOS 7.2.1” section: “The FG-180xF and FG-260xF models can now manage 196 FortiSwitch units.”</li><li>Moved 91E from the top row to the next row in the table at the beginning of the “Introduction” section.</li></ul>  |
| September 28, 2022 | Added another feature to the “What’s new in FortiOS 7.2.1” section.  |

# Introduction

This document provides the following information for FortiSwitchOS 7.2.1 devices managed by FortiOS 7.2.1 build 1254:

- [Special notices on page 7](#)
- [Upgrade information on page 9](#)
- [Product integration and support on page 10](#)
- [Resolved issues on page 11](#)
- [Known issues on page 12](#)

See the [Fortinet Document Library](#) for FortiSwitchOS documentation.

Refer to the [FortiLink Compatibility table](#) to find which FortiSwitchOS versions support which FortiOS versions.

**NOTE:** FortiLink is not supported in transparent mode.

The maximum number of supported FortiSwitch units depends on the FortiGate model:

| FortiGate Model Range  | Number of FortiSwitch Units Supported |
|--|---------------------------------------|
| FortiGate 40F, FortiGate-VM01  | 8                                     |
| FortiGate 6xE, 8xE, 90E, 91E   | 16                                    |
| FGR-60F, FG-60F, FGR-60F-3G4G, FG-61F, FG-80F, FG-80FB, FG-80FP, FG-81F, and FG-81FP | 24                                    |
| FortiGate 100D, FortiGate-VM02   | 24                                    |
| FortiGate 100E, 100EF, 100F, 101E, 140E, 140E-POE                                    | 32                                    |
| FortiGate 200E, 201E   | 64                                    |
| FortiGate 300D to 500D   | 48                                    |
| FortiGate 300E to 500E   | 72                                    |
| FortiGate 600D to 900D and FortiGate-VM04  | 64                                    |
| FortiGate 600E to 900E   | 96                                    |
| FortiGate 1000D to 15xxD   | 128                                   |
| FortiGate 1100E to 25xxE   | 196                                   |
| FortiGate-3xxx and up and FortiGate-VM08 and up                                      | 300                                   |



New models (NPI releases) might not support FortiLink. Contact [Customer Service & Support](#) to check support for FortiLink.

## What's new in FortiOS 7.2.1

The following list contains new managed FortiSwitch features added in FortiOS 7.2.1:

- The `set fortilink-l3-mode` command is now deprecated. Instead, you can create a static inter-switch link (ISL) trunk and then enable or disable automatic VLAN configuration on the manually created (static) ISL trunk:

```
config switch trunk
  edit <trunk_name>
    set static-isl enable
    set static-isl-auto-vlan {enable | disable}
  next
end
```

- You can now use the FortiOS CLI to specify how often the managed FortiSwitch unit will send IGMP version-2 queries when the IGMP-snooping querier is configured:

```
config switch-controller igmp-snooping
  set query-interval <10-1200> seconds
end
```

By default, queries are sent every 125 seconds. The value for `aging-time` must be greater than the value for `query-interval`.

- You can now use the FortiOS CLI to specify whether your managed FortiSwitch configuration is automatically backed up each time a user logs out or before a system upgrade is started. By default, both options are disabled.
- The commands for flooding IGMP reports and flooding multicast traffic on a specified managed switch interface have changed from:

```
config switch-controller managed-switch
  edit <FortiSwitch_serial_number>
  config ports
    edit <port_name>
      set igmps-flood-reports {disable | enable}
      set igmps-flood-traffic {disable | enable}
    next
  end
```

to:

```
config switch-controller managed-switch
  edit <FortiSwitch_serial_number>
  config ports
    edit <port_name>
      set igmp-snooping-flood-reports {disable | enable}
      set mcast-snooping-flood-traffic {disable | enable}
    next
  end
```

For example:

```
config switch-controller managed-switch
  edit S524DF4K15000024
  config ports
    edit port3
      set igmp-snooping-flood-reports enable
      set mcast-snooping-flood-traffic enable
    next
  end
```

# Special notices

## Support of FortiLink features

Refer to the [FortiSwitchOS feature matrix](#) for details about the FortiLink features supported by each FortiSwitchOS model.

## Downgrading FortiSwitchOS 7.0.0 and later to versions earlier than 6.2.6 or 6.4.4 is not supported

Downgrading FortiSwitchOS 7.0.0 and later to FortiSwitchOS 6.2.6 and later 6.2 versions is supported. Downgrading FortiSwitchOS 7.0.0 and later to FortiSwitchOS 6.4.4 and later 6.4 versions is supported. Downgrading FortiSwitchOS 7.0.0 and later to versions earlier than FortiSwitchOS 6.2.6 or 6.4.4 is not supported.

## Downgrading FortiSwitchOS 7.0.0 and later requires converting the admin password first

Because FortiSwitchOS 7.0.0 changed from SHA1 to SHA256 encryption for admin passwords, you need to convert the format of the admin password before downgrading from FortiSwitchOS 7.0.0 and later to an earlier FortiSwitchOS version.



If you do not convert the admin password before downgrading from FortiSwitchOS 7.0.0 and later, the admin password will not work after the switch reboots with the earlier FortiSwitchOS version.

The encrypted admin password in FortiSwitchOS 7.0.0 and higher starts with “SH2”, and the encrypted admin password for earlier FortiSwitchOS versions starts with “AK1”.

If you do not want to convert the format of the FortiSwitch admin password, you can use the FortiOS CLI to override the managed FortiSwitch admin password with the FortiGate admin password.

**To convert the format of the admin password in FortiSwitchOS 7.0.0 and later before downgrading to an earlier FortiSwitchOS version:**

1. Enter the following FortiSwitchOS CLI command to convert the admin password from SHA256 to SHA1 encryption:

```
execute system admin account-convert <admin_name>
```

2. Downgrade your firmware.

**To override the managed FortiSwitch admin password with the FortiGate admin password:**

```
config switch-controller switch profile
  edit <FortiSwitch_profile_name>
    set login-passwd-override enable
    set login-passwd <new_password>
  end
```

## NAC policies not maintained or converted when upgrading from 6.4 to 7.2

When you upgrade from FortiOS 6.4 to FortiOS 7.2.0, existing NAC policies are not maintained or automatically converted into dynamic port policies. They have to be reconfigured.



## Upgrade information

FortiSwitchOS 7.2.1 supports upgrading from FortiSwitchOS 3.5.0 and later.

To determine a compatible FortiOS version, check the [FortiLink Compatibility matrix](#).

Within the Security Fabric, the FortiSwitch upgrade is done after the FortiGate upgrade. Refer to the latest [FortiOS Release Notes](#) for the complete Security Fabric upgrade order.

## Product integration and support

### FortiSwitchOS 7.2.1 support

The following table lists FortiSwitchOS 7.2.1 product integration and support information.

|                                    |  |
|------------------------------------|--|
| <b>Web browser</b>                 | <ul style="list-style-type: none"><li>• Mozilla Firefox version 52</li><li>• Google Chrome version 56</li></ul> <p>Other web browsers may function correctly, but are not supported by Fortinet.</p> |
| <b>FortiOS (FortiLink Support)</b> | Refer to the <a href="#">FortiLink Compatibility table</a> to find which FortiSwitchOS versions support which FortiOS versions.  |

## Resolved issues

The following issues have been fixed in FortiOS 7.2.1. For inquiries about a particular bug, please contact [Customer Service & Support](#).

| Bug ID | Description  |
|--------|--|
| 746618 | The <i>FortiSwitch Ports</i> page for a VDOM does not show the correct link status for exported ports.   |
| 774441 | FortiLink topology only displays partially.  |
| 782734 | Managed switches in VDOMs are not being synchronized in an HA cluster.   |
| 794026 | The number of targets that can be configured in the <code>config user quarantine</code> command has been raised from 256 to 4,000.             |
| 795687 | Some managed FortiSwitch units are not shown on the <i>Fabric Management</i> page.   |
| 799860 | SNMP takes longer to report the change in the managed FortiSwitch status than the CLI.   |
| 802786 | Virtual IP addresses cannot be used in a FortiGate device to redirect the public IP address to the private IP address of the FortiSwitch unit. |
| 803307 | The Security Rating message for enabling STP should be changed to cover all managed switch ports, instead of just edge ports.                  |
| 805154 | The pre-configuration for FS-108F-POE shows the wrong number of PoE ports.   |
| 810550 | When synchronizing the configuration between the FortiGate device and some managed FortiSwitch units, “errno = 6” appears in the error logs.   |

## Known issues

The following known issues have been identified with FortiOS 7.2.1. For inquiries about a particular bug or to report a bug, please contact [Fortinet Customer Service & Support](#).

| Bug ID         | Description  |
|----------------|--|
| 298348, 298994 | Enabling the <code>hw-switch-ether-filter</code> command on the FG-92D model (the default setting) causes FortiSwitch devices to not be discovered.  |
| 520954         | When a “FortiLink mode over a layer-3 network” topology has been configured, the FortiGate GUI does not always display the complete network.   |
| 527695         | <p>Starting in FortiOS 6.4.0, VLAN optimization is enabled by default (<code>set vlan-optimization enable</code> under <code>config switch-controller global</code>). On a network running FortiSwitchOS earlier than 6.0.0, this change results in a synchronization error, but the network still functions normally. If you have FortiSwitchOS 6.0.x, you can upgrade to remove the synchronization error or disable VLAN optimization.</p> <p>On a network with <code>set allowed-vlans-all enable</code> configured (under <code>config switch-controller vlan-policy</code>), the setting reverts to the default, which is disabled, when upgrading to FortiOS 6.4.0. If you want to maintain the <code>allowed-vlans-all</code> behavior, you can restore it after the upgrade.</p>  |
| 586801         | NetBIOS stops working when proxy ARP is configured and the access VLAN is enabled because FortiGate units do not support NetBIOS proxy.  |
| 621785         | <code>user.nac-policy[].switch-scope</code> might contain a data reference to <code>switch-controller.managed-switch</code> . When this reference is set by an admin, the admin needs to remove this reference before deleting the <code>managed-switch</code> .   |
| 781600         | There should be a <i>Create MCLAG pair</i> button in the Topology view under <i>WiFi &amp; Switch Controller &gt; Managed FortiSwitches</i> .  |
| 789914         | <ul style="list-style-type: none"> <li>When LAN segments are enabled on the FS-108E, FS-108E-POE, FS-108E-FPOE, FS-108F, FS-108F-POE, FS-108F-FPOE, FS-124E, FS-124E-POE, FS-124E-FPOE, FS-148E, FS-148E-POE, FS-148F, FS-148F-POE, FS-148F-FPOE, FS-124F, FS-124F-POE, and FS-124F-FPOE models, the internal VLAN (<code>set lan-internal-vlan</code>) is assigned automatically by default. If the same VLAN is configured on the FortiGate device, the configuration fails when it is pushed to the FortiSwitch unit without any warning message. <b>WORKAROUND:</b> Use a custom command.</li> <li>All sub-VLANs must belong to the same MSTP instance if the FortiLink configuration includes the FS-108E, FS-108E-POE, FS-108E-FPOE, FS-108F, FS-108F-POE, FS-108F-FPOE, FS-124E, FS-124E-POE, FS-124E-FPOE, FS-148E, FS-148E-POE, FS-148F, FS-148F-POE, FS-148F-FPOE, FS-124F, FS-124F-POE, and FS-124F-FPOE models.</li> </ul> |
| 798724         | After restarting a FortiGate device, exported managed FortiSwitch ports are missing in the VDOM.   |
| 813216         | After CAPWAP offload is enabled or disabled, FortiLink goes down.  |

| Bug ID | Description  |
|--------|--|
| 818116 | When the status of the FortiLink port is changed in FortiOS, the configuration is not applied to the managed FortiSwitch unit. |



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